

a² 5. (Amended) The method according to claim 1, wherein the carrier frequency is varied in the carrier frequency varying step by phase modulation.

6. (Amended) The method according to claim 1, wherein the carrier frequency is varied in the carrier frequency varying step by frequency modulation.

a³ 8. (Amended) The method according to claim 1, wherein the carrier frequency is varied in the carrier frequency varying step by a sudden frequency change method.

17. (Amended) A radar device comprising:

a first arrangement configured to transmit signals with a carrier frequency;

a⁴ a second arrangement configured to pulse the signals with a pulse repetition frequency;

a third arrangement configured to vary the pulse repetition frequency during operation of the radar device; and

a fourth arrangement configured to vary the carrier frequency during operation of the radar device.

21. (Amended) The radar device according to claim 17, wherein the fourth arrangement is configured to vary the carrier frequency by phase modulation.

a⁵ 22. (Amended) The radar device according to claim 17, wherein the fourth arrangement is configured to vary the carrier frequency by frequency modulation, the radar device further comprising:

a fifth arrangement configured to create a virtual intermediate frequency by mixing a received signal with the modulated carrier frequency; and

a sixth arrangement configured to analyze the received signal at the virtual intermediate frequency.

23. (Amended) The radar device according to claim 17, wherein the fourth arrangement is configured to vary the carrier frequency by a sudden frequency change method.